

Major: Biochemistry & Molecular Biology

*July 2020

Name: _____ PID _____

Credits required for graduation: 120

Writing and Integrative Studies - University Requirement: (20 credits)

WRA 101/195H-4 _____ ISS 2 _____-4 _____ IAH 201-210 -4 _____
 or LB 133-4 _____ ISS 3 _____-4 _____ IAH 211 or greater-4 _____

Note: ISS/IAH courses must be in at least 2 different Diversity Designations (N, I, D)

<u>Biochemistry</u>	<u>Chemistry</u>	<u>Honors</u>	<u>Lyman Briggs</u>
BMB 101-1 ___ F lect. BMB 461-3 ___ F S lect. 1 BMB 462-3 ___ F S lect. 2 BMB 470 (was 472)-3 ___ F lab BMB 471-3 ___ S lab BMB 495-2 ___ S seminar OR BMB 499(2-8) ___ (Thesis) OR LB 492-4 ___ F S seminar (For Lyman Briggs Students Only)	CEM 151-4 ___ F inorg. 1 or CEM 141-4 ___ F S US CEM 152-3 ___ S inorg. 2 or CEM 142-3 ___ F S US CEM 161-1 ___ F S US lab 1 CEM 162-1 ___ F S US lab 2 CEM 262-3 ___ F S US quantitative analysis CEM 351-3 ___ F organic 1 or CEM 251-3 ___ F S US organic 1 CEM 352-3 ___ S organic 2 or CEM 252-3 ___ F S US organic 2 CEM 355-2 ___ S US organic lab 1 CEM 356-2 ___ F organic lab 2 CEM 383-3 ___ F US phys. chem. 1 or CEM 484-3 ___ S molec. thermo. (MTH 235 is a prereq.)		LB 171-4 ___ F S LB 172-3 ___ F S LB 171L-1 ___ F S LB 172L-1 ___ F S
Electives (optional) BMB 490- ___ research			

Physics

Physics I: PHY 183-4 ___ F S US **or** PHY 221-4 ___ F S **or** PHY 241-4 ___ F **or** LB 273-4 ___ F (Lyman Briggs Only) **or** PHY 193H 4 ___ F (Honors)
 Physics II: PHY 184-4 ___ F S US **or** PHY 222-4 ___ F S **or** PHY 242-4 ___ S **or** LB 274-4 ___ S (Lyman Briggs Only) **or** PHY 294H-4 ___ S (Honors)

Non-Calc Physics:** Requires calculus bridge courses:
 Physics I: **PHY 231-3 ___ F S US + PHY 233B-2 ___ F S US (bridge)
 Physics II: **PHY 232-3 ___ F S US + PHY 234B-2 ___ F S US (bridge)

NOTE: Lyman Briggs students starting at MSU in Fall 2019 or after, who are not taking LB 273/274, must complete PHY labs - see options below

<u>Computer Science/Math</u>	<u>Lyman Briggs</u>	<u>Honors</u>
CMSE 201-4 ___ F S MTH 132-3 ___ F S US (calc 1) or LB 118-4 ___ F S or MTH 152H-3 ___ F S MTH 133-4 ___ F S US (calc 2) or LB 119-4 ___ F S or MTH 153H-3 ___ S		

<u>Biology</u>	<u>Advanced Selectives - 300-400 level courses (10 credits)</u> <u>(see back page for options)</u>								
<table style="width: 100%;"> <thead> <tr> <th style="width: 33%;"><u>Lyman Briggs</u></th> <th style="width: 33%;"><u>Honors</u></th> </tr> </thead> <tbody> <tr> <td>BS 162-3 ___ F S US or LB 144-4 ___ F S or BS 182H-3 ___ F BS 161-3 ___ F S US or LB 145-5 ___ F S or BS 181H-3 ___ S BS 171-2 ___ F S US or LB 145-5 or BS 191H-2 ___ S lab</td> <td></td> </tr> <tr> <td colspan="2">Premeds and all Lyman Briggs students also need</td> </tr> <tr> <td colspan="2">BS 172-2 ___ F S US or LB 144-4 ___ F S or BS 192H-2 ___ F</td> </tr> </tbody> </table>	<u>Lyman Briggs</u>	<u>Honors</u>	BS 162-3 ___ F S US or LB 144-4 ___ F S or BS 182H-3 ___ F BS 161-3 ___ F S US or LB 145-5 ___ F S or BS 181H-3 ___ S BS 171-2 ___ F S US or LB 145-5 or BS 191H-2 ___ S lab		Premeds and all Lyman Briggs students also need		BS 172-2 ___ F S US or LB 144-4 ___ F S or BS 192H-2 ___ F		_____ _____ _____ _____
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Premeds and all Lyman Briggs students also need									
BS 172-2 ___ F S US or LB 144-4 ___ F S or BS 192H-2 ___ F									

Premeds and Lyman Briggs students may also need: (consult with pre-professional advisor)	Premeds may also need: (consult with Pre-professional advisor)
PHY 251-1 ___ F S US lab 1 or PHY 191-1 ___ F lab 1 PHY 252-1 ___ F S US lab 2 or PHY 192-1 ___ S lab 2	PSY ___-___ F S US SOC ___-___ F S US

(*Please visit our website for most current requirements checklists: <https://bmb.natsci.msu.edu/undergraduate/academics/>)